



M12 Connector

TE Internal #: T4110001081-000

Cable-to-Cable, 8 Position, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, M12 Connector, Standard Circular Connectors

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Connectors > Circular Connectors > Standard Circular Connectors > M12 Field Installable Unshielded



Connector System: **Cable-to-Cable**  
Connector Mounting Type: **Cable Mount (Free-Hanging)**  
Number of Positions: **8**  
Sealable: **Yes**  
Connector & Contact Terminates To: **Wire & Cable**

[All M12 Field Installable Unshielded \(102\)](#)

Features

Product Type Features

|                                   |                      |
|-----------------------------------|----------------------|
| Connector System                  | Cable-to-Cable       |
| Sealable                          | Yes                  |
| Connector & Contact Terminates To | Wire & Cable         |
| Circular Connector Type           | Receptacle           |
| Shell Type                        | Plastic              |
| Assembly Requirement              | Factory Assembled    |
| Circular Connector Shell Type     | All Plastic          |
| Connector Product Type            | Connector Assembly   |
| Assembly Type                     | Electrical Connector |

Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
| Polarization Code       | A                          |
| Mating Alignment Type   | Keyed                      |



|                       |                   |
|-----------------------|-------------------|
| Mating Retention Type | Threaded Coupling |
| Mating Alignment      | With              |

Configuration Features

|                             |     |
|-----------------------------|-----|
| Number of Positions         | 8   |
| Number of Power Positions   | 0   |
| Number of Signal Positions  | 8   |
| Contacts Preloaded          | Yes |
| Factory Installed Backshell | No  |

Contact Features

|                                 |        |
|---------------------------------|--------|
| Contact Current Rating (Max)    | 2 A    |
| Reverse Gender                  | Yes    |
| Circular Connector Contact Type | Socket |

Operation/Application

|                     |            |
|---------------------|------------|
| Circuit Application | Signal     |
| Shielded            | No         |
| Durability Rating   | 100 Cycles |

Body Features

|                                             |                   |
|---------------------------------------------|-------------------|
| Shell Plating Material                      | Unplated          |
| Shell Base Material                         | Plastic           |
| Circular Connector Insulation Material Type | Polyamide 66 GF25 |
| Hermetically Sealed                         | Yes               |
| O-Ring Material                             | Silicone          |
| Environmental Protection                    | IP67              |
| Environmental Protection Type               | Elastomer Sealed  |
| Primary Product Color                       | Black             |
| Peripheral Seal Material                    | Silicone          |

Dimensions

|           |                          |
|-----------|--------------------------|
| Wire Size | .5 – .25 mm <sup>2</sup> |
|-----------|--------------------------|

Housing Features

|                               |    |
|-------------------------------|----|
| Circular Connector Shell Size | 20 |
|-------------------------------|----|

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |
|-----------------------------|---------------------------|



|                        |      |
|------------------------|------|
| IP Dust Sealing Level  | 6    |
| IP Water Sealing Level | IP67 |

Other

|                    |                           |
|--------------------|---------------------------|
| EU RoHS Compliance | Compliant with Exemptions |
| EU ELV Compliance  | Compliant with Exemptions |
| Field Serviceable  | Yes                       |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 30 VDC |
|-------------------|--------|

Industry Standards

|                        |         |
|------------------------|---------|
| UL Flammability Rating | UL 94HB |
|------------------------|---------|

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                    |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                    |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                                                                                                                                                                                                                                                                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Pb (4% in Component Part)<br><b>Article Safe Usage Statements:</b><br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                                                                                                                                                                                                                                                                                                               |
| Solder Process Capability                     | Not applicable for solder process capability                                                                                                                                                                                                                                                                                                                                                                                 |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>



Compatible Parts

TE Part # 1838274-4  
M12 Fld Ser CONN. Female Skt Sldr

TE Part # T4111001081-000  
M12,MALE,STRAIGHT,A CODE,8P,PG7,GOLD

Also in the Series | M12 Connector

Connector Hardware(11)

Connector Seals & Cavity Plugs(4)

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(793)

Customers Also Bought

TE Part #T4110001051-000  
M12 Field Installable Unshielded

TE Part #1-6609035-3  
20ESK6=F7585 S0

TE Part #T4130012081-000  
M12,REAR MOUNT,MALE, A,8P, SOLDER WIRE

TE Part #1-111446-8  
020 UNIV I/O 30DP NO EARS

TE Part #746611-6  
16 DIP PLUG, 300CL, LEAD FREE

TE Part #154N-001G-RT  
1 PSIG RIBBON CABLE TUBE MV PRESSURE

TE Part #TAX3812A202-002  
RPC-M12X-MS-8CON-TPE-1.0SH

Documents

Product Drawings  
M12,FEMALE,STRAIGHT,A CODE,8P,PG7,GOLD  
English

CAD Files



Customer View Model

[ENG\\_CVM\\_CVM\\_T4110001081-000\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4110001081-000\\_B.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4110001081-000\\_B.2d\\_dxf.zip](#)

English

[3D PDF](#)

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[M8 / M12 Connector System Catalog](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL](#)

English